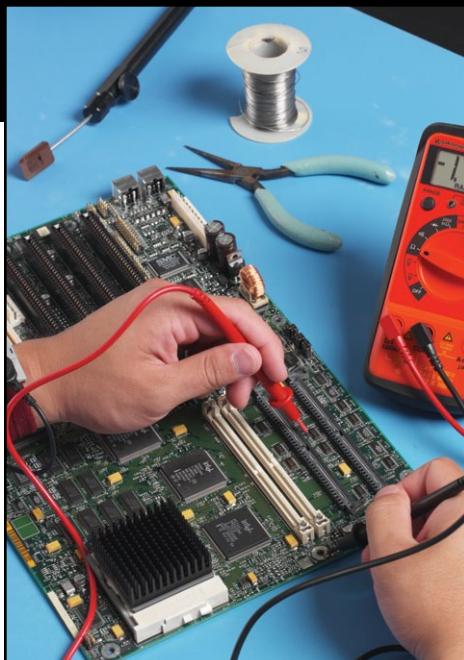




# 15XP-B

## Digital Multimeter

Amprobe 15XP-B is the right choice for electronics engineers and field service technicians, featuring TTL logic test for digital circuits, diode test for component level troubleshooting, a special 2000 M $\Omega$  measurement range, and an integrated tilt stand for convenience on the bench.

- The 15XP-B is the right choice for electronics engineers, technicians and field service
- Autoranging display for faster measurements
- TTL logic test for digital circuits
- Integrated tilt stand for easy bench use
- Diode test for component level troubleshooting
- Data Hold freezes display to "hold" measurement reading
- 600 V AC / 600 V DC—highest voltage rating in this size of meter
- Special 2000M $\Omega$  measurement range



15XP-B

### No hassle warranty

*No waiting.*

*No shipping charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)





## 15XP-B Digital Multimeter

## Data Sheet

### General Specifications

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Display                 | 3-1/2 digit liquid crystal display (LCD) with a maximum reading of 1999       |
| Polarity                | Automatic, positive implied, negative polarity indication                     |
| Overrange               | (OL) or (-OL) is displayed                                                    |
| Zero                    | Automatic                                                                     |
| Low Battery Indication  | The "⚡" is displayed when the battery voltage drops below the operating level |
| Auto Power Off          | Approx. 10 minutes                                                            |
| Measurement Rate        | 2 times per second, nominal                                                   |
| Operating Environment   | 0 °C to 50 °C at <70 % R.H.                                                   |
| Storage Temperature     | -20 °C to 60 °C, 0 to 80 % R.H. with battery removed from meter               |
| Accuracy                | Stated accuracy at 23 °C $\pm$ 5 °C, <75 % relative humidity                  |
| Temperature Coefficient | 0.1 x (specified accuracy) per °C (0 °C to 18 °C, 28 °C to 50 °C)             |
| Altitude                | 2000 m                                                                        |
| Power                   | Single standard 9 volt battery, NEDA 1604, JIS 006P, IEC 6F22                 |
| Battery Life            | 200 hours typical with carbon-zinc                                            |
| Dimensions              | (H x W x D) 155 mm x 72 mm x 32 mm (6.1 x 2.83 x 1.26 IN)                     |
| Weight                  | Approx. 210 g (0.46 Lb) including battery                                     |
| Warranty                | One-year                                                                      |

### Specifications

| Function                     | Range                                                                                          | Accuracy                                                           |
|------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Voltage</b>               |                                                                                                |                                                                    |
| DC Volts                     |                                                                                                |                                                                    |
| Ranges                       | 200 mV, 2 V, 20 V, 200 V, 600 V                                                                | $\pm$ (0.5 % rdg + 1 dgt)                                          |
| AC Volts (45 Hz to 500 Hz)   |                                                                                                |                                                                    |
| Ranges                       | 200 mV (45 Hz to 100 Hz)<br>2 V, 20 V, 200 V, 600 V                                            | $\pm$ (1.5 % rdg + 5 dgts)<br>$\pm$ (1.5 % rdg + 5 dgts)           |
| Resolution                   | 100 $\mu$ V                                                                                    |                                                                    |
| Input Impedance              | 400 mV: >100 M $\Omega$ ; 4 V: 10 M $\Omega$ ; 40 V to 1000 V: 9.1 M $\Omega$                  |                                                                    |
| Overload Protection          | 600 V DC or 600 V AC RMS                                                                       |                                                                    |
| <b>Current</b>               |                                                                                                |                                                                    |
| DC Current                   |                                                                                                |                                                                    |
| Ranges                       | 200 $\mu$ A, 2000 $\mu$ A, 20 mA, 200 mA<br>2 A                                                | $\pm$ (1.0 % rdg + 2 dgt)<br>$\pm$ (2.0 % rdg + 3 dgts)            |
| AC Current (45 Hz to 500 Hz) |                                                                                                |                                                                    |
| Ranges                       | 200 $\mu$ A, 2000 $\mu$ A, 20 mA, 200 mA<br>2 A                                                | $\pm$ (1.5 % rdg + 5 dgts)<br>$\pm$ (2.5 % rdg + 5 dgts)           |
| Resolution                   | 0.1 $\mu$ A                                                                                    |                                                                    |
| Input Protection             | 2 A/1000 V fast blow ceramic fuse 6.3 mm x 32 mm on A input                                    |                                                                    |
| Burden Voltage               | 500 mV max. (2 V max. on 2 mA, 200 mA ranges)                                                  |                                                                    |
| Resistance                   | 200 $\Omega$ , 2 k $\Omega$ , 20 k $\Omega$ , 200 k $\Omega$ , 2 M $\Omega$<br>2000 M $\Omega$ | $\pm$ (1.0 % rdg + 4 dgts)<br>$\pm$ {5.0 % (rdg -10 dgts) +20 dgt} |
| Resolution                   | 100 m $\Omega$                                                                                 |                                                                    |
| Open Circuit Voltage         | -0.45 V DC typical, (-1.2 V DC on 200 $\Omega$ range)                                          |                                                                    |
| Overload Protection          | 600 V DC or 600 V AC RMS                                                                       |                                                                    |
| <b>Continuity</b>            |                                                                                                |                                                                    |
| Audible Indication           | Less than 25 $\Omega$                                                                          |                                                                    |
| Response Time                | 100 ms                                                                                         |                                                                    |
| Overload Protection          | 600 V DC or 600 V AC RMS                                                                       |                                                                    |



## 15XP-B Digital Multimeter

## Data Sheet

### Specifications, cont.

| Function                                                                                                           | Range                       | Accuracy                                   |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------|
| <b>Diode Test</b>                                                                                                  |                             |                                            |
| Test Current                                                                                                       | 1.2 mA (approximate)        | $\pm(1.5 \% \text{ rdg} + 3 \text{ dgts})$ |
| Resolution                                                                                                         | 1 mV                        |                                            |
| Open Circuit Voltage                                                                                               | 3.0 dc typical              |                                            |
| Overload Protection                                                                                                | 600 V DC or 600 V AC RMS    |                                            |
| <b>Logic Test</b>                                                                                                  |                             |                                            |
|                                                                                                                    | TTL                         |                                            |
| Thresholds Logic 1 (Hi )                                                                                           | 2.8 V $\pm$ 0.8 V           |                                            |
| Thresholds Logic 0 (Lo)                                                                                            | 0.8 V $\pm$ 0.5 V           |                                            |
| Test Voltage                                                                                                       | TTL 5 VDC                   |                                            |
| Frequency Range                                                                                                    | 20 MHz                      |                                            |
| Pulse Width                                                                                                        | 25 ns min                   |                                            |
| Duty Cycle Limits                                                                                                  | > 30 % and < 70 %           |                                            |
| Indication                                                                                                         | 40 ms beep at Logic 0 ( Lo) |                                            |
| Overload Protection                                                                                                | 600 VDC or 600 VAC RMS      |                                            |
| <b>Non-Contact Voltage Indicator</b>                                                                               |                             |                                            |
| Sense voltage 70 V to 600 V ac (50 Hz to 60 Hz) beeper chirps and big bright red LED comes on, works on all ranges |                             |                                            |

## 15XP-B Digital Multimeter

## Data Sheet



### Included Accessories

Pair of test leads (TL245A), fuse 2 A/ 1000 V (P/N FP200), 9 V battery (installed), Magne-Grip™ Holster with magnetic hanging strap and users manual.

### Optional Accessories

**VC30A** Carrying Case

**DL243D** Test Lead Kit

### Amprobe® Test Tools

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